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Protmex PTH-24D

Protmex Carbon Monoxide Detector

MODEL: PTH-24D USER MANUAL

1. Introduction

The Protmex PTH-24D is a versatile 3-in-1 plug-in carbon monoxide (CO) detector designed to monitor air quality in your environment. It provides real-time readings for carbon monoxide concentration, ambient temperature, and humidity levels. Its plug-and-play design allows for easy installation in any standard electrical outlet, making it suitable for various indoor settings.

This device features a large, colorful display for clear readability and incorporates an audible alarm system with visual warnings to alert users to potentially dangerous CO levels. The unit is constructed with flame-retardant ABS plastic for enhanced safety.



Figure 1: Protmex PTH-24D Carbon Monoxide Detector in use.

2. Product Features

- **3-in-1 Monitoring:** Detects Carbon Monoxide (CO), Temperature, and Humidity.
- **Plug-and-Play Design:** Easy installation into standard 100-220V electrical outlets.
- **High-Definition IPS Display:** Clear and vibrant display of all readings.
- **Audio-Visual Alarm:** Sounds an alarm and flashes lights when CO levels exceed safe thresholds.
- **Replaceable Plug:** Features an interchangeable plug for versatile use.
- **Flame-Retardant Casing:** Constructed from durable ABS plastic for safety.

PLUG-IN CARBON MONOXIDE DETECTOR



Accurate detection is fast and convenient

PTH-24D

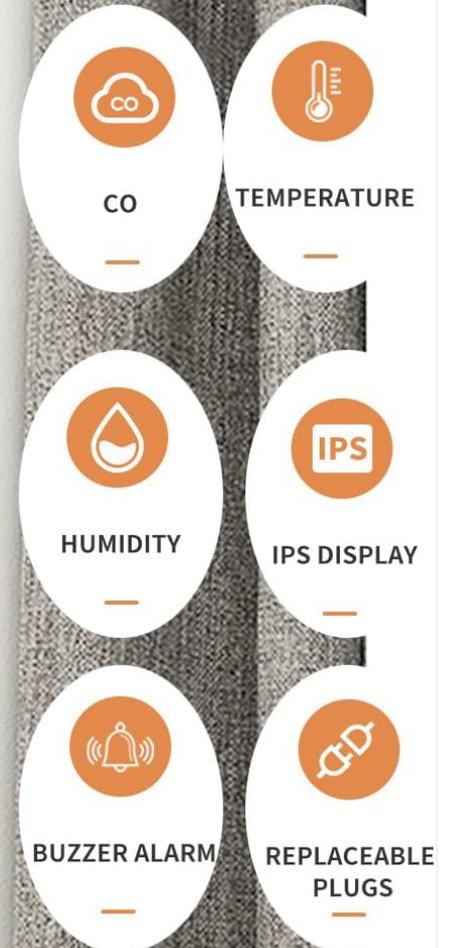


Figure 2: Key features of the Protmex PTH-24D detector.

3. Setup and Installation

1. **Unboxing:** Carefully remove the Protmex PTH-24D detector from its packaging.
2. **Plug Selection (if applicable):** The device features a replaceable plug. Ensure the correct plug type for your region (100-220V, 50/60Hz) is securely attached. To change the plug, press the quick-release button and rotate to unlock.
3. **Placement:** Select a suitable location for the detector. It is recommended to place the detector in areas where carbon monoxide may accumulate, such as near fuel-burning appliances (furnaces, water heaters, fireplaces), in bedrooms, living areas, or in RVs. Avoid placing it directly above heat sources, in direct sunlight, or in areas with high humidity or airflow that could affect readings.
4. **Power On:** Plug the detector directly into a standard electrical outlet (100-220V). The device will power on

automatically and begin its calibration sequence.

5. **Initial Calibration:** Upon first power-up or after a reset, the device will calibrate itself. This may take a few minutes. During this time, the display may show varying readings before settling to stable environmental values.



Figure 3: The interchangeable plug feature for flexible installation.

Video 1: Demonstration of plugging in the detector and its initial display. (Source: DingYue US)

4. Operating Instructions

4.1 Display Readings

The HD 2.0-inch IPS display shows the following information:

- **CO PPM:** Real-time Carbon Monoxide concentration in parts per million (PPM).
- **Temperature:** Ambient temperature, switchable between Celsius (°C) and Fahrenheit (°F).
- **Humidity:** Relative humidity percentage (%).

- **Alert Icons:** Visual indicators for CO levels (Green: Safe, Yellow: Warning, Orange: Exceeded, Red: Alarm).

4.2 Button Functions

The device features three control buttons on the front panel:

- **"U" Button:**
 - Short Press: Initiates a self-test.
 - Long Press: Toggles temperature unit between Fahrenheit (°F) and Celsius (°C).
- **Buzzer Button (Bell Icon):**
 - Short Press: Toggles alarm sound On/Off.
 - Long Press: Flips the screen display 180 degrees for inverted outlets.
- **Screen Brightness Button (Light Bulb Icon):**
 - Short Press: Adjusts screen brightness levels.



Figure 4: Button functions for the Protmex PTH-24D.

4.3 Alarm Functionality

The detector is equipped with an upgraded alarm function:

- When CO concentration exceeds 50 PPM, the screen will display a yellow icon warning.
- The device will emit an audible alarm sound of more than 85dB.
- The breathing light will flash to provide a visual alert.
- The device continuously monitors CO levels for 24 hours, even if the screen or breathing light is turned off to save energy (when CO levels are below 150 PPM).

Video 2: Overview of the detector's display and alarm features. (Source: DingYue US)

5. Recommended Usage Areas

The Protmex PTH-24D is suitable for a wide range of indoor environments:

- Homes and Apartments
- Living Rooms (especially with fireplaces)
- Kitchens (where gas appliances are used)
- Bedrooms and Children's Rooms
- Guest Rooms
- Cellars and Garages
- Recreational Vehicles (RVs)
- Hotels and during domestic or international travel (due to its portable size)



Figure 5: Ideal locations for detector placement.

6. Specifications

Feature	Detail
Product Model	PTH-24D
Brand	Protmex
Power Source	Corded Electric
Input Voltage	100-220V, 50/60Hz
Product Dimensions	1.18"D x 2.99"W x 2.76"H (approx. 105mm x 55mm x 52mm)
Item Weight	3.52 ounces

Alarm Type	Audible (>85dB) and Visual (flashing light, screen icons)
Operating Humidity	0%-95%
CO Detection Range	0-999 PPM ($\pm 10\%$)
CO Sound Alarm Threshold	Initial Default: 51 PPM
Casing Material	Flame-retardant ABS Plastic

SPECIFICATIONS

DIMENSIONS



Figure 6: Product dimensions.

7. Maintenance

- **Cleaning:** Gently wipe the device with a soft, dry cloth. Do not use abrasive cleaners, solvents, or detergents, as these may damage the casing or internal components.
- **Ventilation:** Ensure that the ventilation openings on the device are not obstructed by dust or debris.

- **Regular Testing:** Perform regular self-tests using the "U" button to ensure proper functionality.

8. Troubleshooting

- **No Display/Power:** Ensure the device is securely plugged into a functional electrical outlet. Check the outlet with another appliance.
- **Inaccurate Readings:** Allow the device sufficient time to calibrate after plugging in. Ensure it is not placed near strong drafts, heat sources, or in excessively humid environments.
- **Alarm Sounds:** If the alarm sounds, immediately ventilate the area by opening windows and doors. Evacuate the premises and contact emergency services if you suspect a carbon monoxide leak. Do not re-enter until the area has been deemed safe by professionals.

9. Warranty and Support

The Protmex PTH-24D Carbon Monoxide Detector comes with a **48-month manufacturer's warranty**.

For technical support, warranty claims, or any inquiries, please contact Protmex customer service:

- **Email:** support@lsenly.com
- **Instagram:** [@lsenly](https://www.instagram.com/lsenly)
- **Facebook:** Search for "Lsenly"